

Defense goes COTS/NDI

How do we respond?

Tom Castino
President and CEO
Underwriters Laboratories Inc.



Standards

TOM CASTINO - MARCH 1, 2000

Background

Traditional DOD Purchases

- Fed Specs: standards for selling to the government
- Mil Specs: purchase and approval criteria for military use

Outcomes

- increased costs
- delays in access to new technology



Standards

TOM CASTINO - MARCH 1, 2000

Background

1970's

- some “off the shelf” substitutions allowed

1990's

- Mil-Spec Reform Policy
- NTTAA
- OMB Circular A119

TOM CASTINO - MARCH 1, 2000

Standards



Benefits of Private Sector Purchases

- cost savings
- greater choice
- newest products
- increased convenience
- bulk purchasing
- decreased redundancy and duplication

TOM CASTINO - MARCH 1, 2000

Standards



COTS/NDI Foundation

- Safety
- Standards
- Production and Quality Management



Standards

TOM CASTINO - MARCH 1, 2000

Safety

- Underwriters Laboratories Inc. (UL)
 - integral to U.S. Safety System
 - an independent, not-for profit organization
 - unwavering commitment to public safety, human well-being and protection of the environment



Standards

TOM CASTINO - MARCH 1, 2000

Safety

- The UL Mark is the mark of safety for products produced and sold throughout the world
- Over 17 billion products appear annually on the market bearing the UL Mark



Standards

TOM CASTINO - MARCH 1, 2000

Standards

- Importance of specific/appropriate criteria
- U.S. government promotes the use of private sector voluntary standards



Standards

TOM CASTINO - MARCH 1, 2000

Standards

Underwriters Laboratories Inc. (UL)

- a leader in product safety standards development
- 14,000 generic product categories
- publishes nearly 800 *UL Standards for Safety*
- Engineering and Advisory Councils



Standards

TOM CASTINO - MARCH 1, 2000

Standards

Government Agency Participation

- Naval Sea Systems Command (NAVSEA)
- US Coast Guard (USCG)
- Consumer Product Safety Commission (CPSC)
- Department of Labor (DOL)
- Environmental Protection Agency (EPA)
- Food and Drug Administration (FDA)



Standards

TOM CASTINO - MARCH 1, 2000

Standards

Use of

- Collaborative/interactive processes
- 70% *UL Standards for Safety* designated American National Standards
- 164 *UL Standards for Safety* adopted by Department of Defense



Standards

TOM CASTINO - MARCH 1, 2000

Standards

Web site

[Http://standards.ul.com:82/](http://standards.ul.com:82/)



Standards

TOM CASTINO - MARCH 1, 2000

Production and Quality Management

What you order is what you get!

Confidence that manufacturer's processes will meet expectations



Standards

TOM CASTINO - MARCH 1, 2000

Production and Quality Management

Source Verification and Inspection Services (SVIS)

- Buyer verification of order-to-shipment
- Factory Inspections
- Pre-shipment Inspection



Standards

TOM CASTINO - MARCH 1, 2000

Production and Quality Management

Management Systems Registrations

- ISO-9000
- QS-9000
- ISO-14001
- TE
- AS-9000
- TL-9000
- VDA 6.1
- TickIT

TOM CASTINO - MARCH 1, 2000

Standards



Current and Future Activities

- UL/DOD cooperation
- Standards satisfy Fed-Specs
- Differences lead to revisions

TOM CASTINO - MARCH 1, 2000

Standards



First Group of Standards Adopted

- Motor Operated Appliances
- Commercial Electric Cooking Appliances
- Household Electric Ranges
- Refrigerant Containing Components and Accessories, Nonelectrical
- Household Refrigerators and Freezers
- Commercial Refrigerators and Freezers
- Container Assemblies for LP-Gas
- Electric Motors and Generators for Use in Division 1 Hazardous Locations
- Burglary-Resistant Safes
- Combination Locks
- Stationary and Fixed Electric Tools
- Household Electric Coffee Makers and Brewing-Type Appliances



Standards

TOM CASTINO - MARCH 1, 2000

Everyday Use

- UL tests products purchased by the military
- The UL Mark indicates safety requirements



Standards

TOM CASTINO - MARCH 1, 2000

Rigorous Use

UL evaluates products for...

- temperature and humidity extremes
- dust and dirt
- acidic and caustic fumes
- hazardous and flammable gases



Standards

TOM CASTINO - MARCH 1, 2000

Extreme Environments

UL can assist military organizations with...

- development of standards for special end uses
- testing for safety under unique conditions



Standards

TOM CASTINO - MARCH 1, 2000

Specialized Product Facilitation

Defense Logistic Agency identifies Standards to replace documents...

- Mil Specs
- Fed Specs
- Mil Standards



Standards

TOM CASTINO - MARCH 1, 2000

Specialized Product Facilitation

Naval and Coast Guard supplements to Standards that cover unique conditions

- UL Standard 489- circuit breakers in wet locations
- UL Standard 1449- transient volt surge suppressor on ungrounded shipboard systems
- UL Standard 67- panel board standard- has Coast Guard Supplement



Standards

TOM CASTINO - MARCH 1, 2000

Specialized Product Facilitation

Special Testsing

- high temperature
- dielectric voltage
- vibration
- calibration



Standards

TOM CASTINO - MARCH 1, 2000

Specialized Product Facilitation

Naval Sea Systems Command and the Defense Supply Centers...

- incorporate government specific requirements
- parallel military specifications



Standards

TOM CASTINO - MARCH 1, 2000

Conclusion

- Government agencies rely on third party certifications
- UL is a leader in conformity assessment and product certification

-  - *Standard for Safety*



Standards

TOM CASTINO - MARCH 1, 2000

How do we respond?

Opportunity friendly solutions



Standards

TOM CASTINO - MARCH 1, 2000



TOM CASTINO - MARCH 1, 2000

Standards

